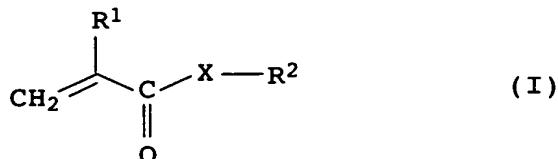


We claim:

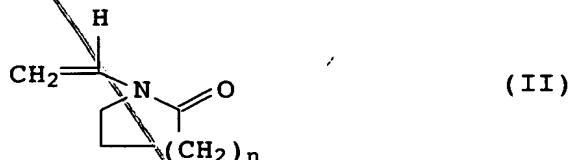
5 1. A cationic polymer obtainable by free-radical copolymeriza-  
tion of

(a) from 50 to 70% by weight of one or more monomers of the  
formula I



15  $\text{X} = \text{O}, \text{NR}^1,$   
 $\text{R}^1 = \text{H}, \text{C}_1\text{-C}_8\text{-alkyl},$   
 $\text{R}^2 = \text{tert-butyl},$

20 (b) from 5 to 45% by weight of one or more monomers of the  
formula II



where  $n = 1$  to 3,

30 (c) from 5 to 40% by weight of a monoethylenically  
unsaturated monomer having at least one amine-containing  
group,

35 (d) from 0 to 5% by weight of a polyalkylene oxide-containing  
silicone derivative,

where up to 40% by weight, based on (a), (b), (c) and (d), of  
the monomer (a) can be replaced by a monomer of the formula I  
where  $\text{R}^2 = \text{C}_2\text{-C}_{22}\text{-alkyl}.$

40 2. A polymer as claimed in claim 1, obtainable by free-radical  
copolymerization of

(a) from 51 to 65% by weight of the monomer of the formula I,

45 (b) from 7 to 39% by weight of the monomer of the formula II,

(c) from 10 to 30% by weight of the amine-containing monomer.

*Sub  
cont.*

3. A polymer as claimed in claim 1, wherein the monomer (a) is tert-butyl acrylate, N-tert-butylacrylamide and/or tert-butyl methacrylate.

5 4. A polymer as claimed in claim 1, wherein the monomer (b) is vinylpyrrolidone and/or vinylcaprolactam.

5. A polymer as claimed in claim 1, wherein the monomer (c) is dimethylaminoalkyl (meth)acrylate and/or dimethylaminoalkyl (meth)acrylamide.

10 6. A polymer as claimed in claim 1, wherein the monomers of the formula I where  $R^2 = C_2-C_{22}$ -alkyl are N-butylacrylamide, N-octylacrylamide, lauryl (meth)acrylate or stearyl (meth)acrylate.

15 7. The use of polymers as claimed in claim 1 to 6 for cosmetic preparations.

20 8. The use as claimed in claim 7 as setting polymers in hair spray, foam setting compositions, hair mousse, hair gel or shampoos.

9. A cosmetic preparation comprising a polymer as claimed in claim 1 in an amount of from 0.1 to 30% by weight, based on the preparation

25 10. A cosmetic preparation as claimed in claim 9, wherein the polymer is partially or completely neutralized using a monohydric acid, preferably using a polyhydric acid or a polycarboxylic acid, or is quaternized using a quaternizing agent.

30 11. A cosmetic preparation as claimed in claim 10, wherein the polymer is partially or completely neutralized using phosphoric acid or an acid mixture containing phosphoric acid.

35 12. The use of polymers as claimed in one of claims 1 to 6 having a glass transition temperature of  $> 25^\circ C$  and a K value of from 25 to 70, preferably from 35 to 50, for hair cosmetics.

40 13. A hair cosmetic preparation comprising

*Sub  
23*

*Claim 1*

(a) from 0.2 to 20% by weight of a polymer as claimed in one of claims 1 to 6,

5 (b) from 0 to 10% by weight of a conventional hair-setting polymer,

(c) from 0 to 1% by weight of a water-dispersible siloxane-containing compound,

10 (d) from 30 to 99.5% by weight of a solvent or solvent mixture of alcohol and water,

(e) from 0 to 60% by weight of a propellant comprising dimethyl ether and/or propane/butane, and

15 (f) from 0 to 0.3% by weight of a cosmetically suitable additive.

14. The use as claimed in claim 7 as a constituent in cosmetic skin preparations.

20 15. The use as claimed in claim 14, wherein a fatty acid amide is additionally used.

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